● PRINTER RUSH ●
(PTO ASSISTANCE)

Application :	09/842,397	**Examiner :**	Vartanian, H	**GAU :**	2634
From:	B&C	**Location:**	IDC FMF FDC	**Date:**	4/27/05

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[RUSH] **MESSAGE:** Original claim 3 does not end with a period. Please Resolve.

Thank You
B&C

[XRUSH] **RESPONSE:**

Jan

INITIALS:

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

for generating a frequency and phase corrected output signal in response to said digital receiver receiving said updated estimated frequency error estimate and said updated estimated phase error estimate .

4. The frequency and phase synchronizer system of claim 1 wherein said unknown frequency offset value is determined by:

generating a first product by multiplying said first sequence of even numbered samples by a first parameter;

generating a first complex exponential value by applying a first discrete time voltage controlled oscillator to said frequency error estimate;

generating a second product by multiplying said first product and said first complex exponential value;

generating a third product by multiplying said second sequence of odd numbered samples by a second parameter;

generating a second complex exponential value by applying a second discrete time voltage controlled oscillator to said frequency error estimate;

generating a fourth product by multiplying said third product and said second complex exponential value;

generating a sequence of first sum signals $SUM1_l$ by adding said second and fourth products, where l is an index and $1 \leq l \leq N$ and N is a positive integer ;